SUMMARY

The Advanced Reactors Transition (ART) consists of WBS 2.1.1.1.21.1, Project Baseline Summary (PBS) RL-MS01, the Fast Flux Test Facility (FFTF), WBS 2.1.1.1.4, Funding Transfer, and WBS 1.12.1.1, PBS RL-TP11, the 309/Plutonium Recycle Test Reactor (PRTR) and NE Legacies. The performance tables and variance analysis that follow are for the combined totals of these three unless otherwise specified.

The ART mission area technical accomplishments recorded this month included Solid Waste Cask (SWC) progress on the closure valve conceptual design and impact limiters. Low Level Flux Monitor (LLFM) Blower (E-230-R) bearing progress included preparations for the lower end-bell and the upper shaft-bearing machining. Closed Loop Ex-Vessel Machine (CLEM) Control System Upgrade activities included removal of the old system and installation of new control cabinets. The Reactor Service Building roof-recoating job was completed. Work was completed on replacement of the FFTF Control Room lighting.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, FO, and RL) shows that 4 of 11 milestones (36 percent) were completed on or ahead of schedule. A Tri-Party Agreement (TPA) Change Request (CR) is in progress to place six (60 percent) overdue milestones "in abeyance". The TPA Change Request has been delayed because the Richland Operations Office is waiting for a decision to be made by the Secretary of Energy on whether to proceed with a NEPA EIS for a potential multi-mission concept or to resume transition to shutdown. Once the decision is made a TPA Change Request reflecting the Secretary's decision will be submitted for the three TPA Parties approval. Details on the milestone exceptions can be found on N: 8.

ACCOMPLISHMENTS

- FFTF has exceeded 1.1 million hours since the last employee lost workday and the OSHA recordable injury record is now over 300 days (380,000 hours). (Planned)
- Solid Waste Cask (SWC) progress consisted of finalizing the conceptual design configuration for the closure valve and impact limiters. (B10-99-407)
- The Low Level Flux Monitor (LLFM) Blower (E-230-R) bearing replacement progress included preparations for machining on the lower end bell bearing housing and rotor surfaces. (Planned)
- Closed Loop Ex-Vessel Machine (CLEM) Control System Upgrade activities included removal of the old system and installation of new equipment and control cabinets. (B19-99-403)
- The Reactor Service Building roof-recoating job has been completed. (B10-99-050)
- Work was completed on replacement of the FFTF Control Room lighting. (Planned)

COST PERFORMANCE ($M):

	BCWP	ACWP	VARIANCE
Advanced Reactors Transition	$33.8	$31.1	+$2.7

* Rounding

The favorable cost variance of $2.7M (8.0 percent) is due to a credit indirect passback and a credit FY 1998 Fee adjustment and labor, contract, material underruns and program efficiencies.

SCHEDULE PERFORMANCE ($M):

	BCWP	BCWS	VARIANCE
Advanced Reactors Transition	$33.8	$34.7	-$0.9

The -$0.9M (2.6 percent) unfavorable schedule variance is within the established 4 percent unfavorable threshold.

ISSUES

1) **Issue:** The ART FY 2000 budget guidance has $30.0M for FFTF and $1.4M for NE Legacies Activities.

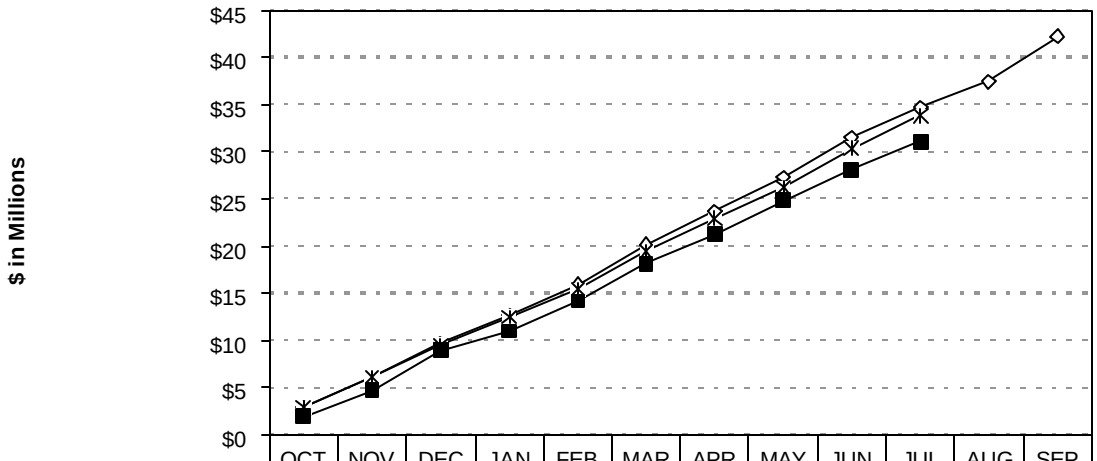
Impact: The FFTF budget is significantly under required funding of $41.0M. If DOE doesn't commit to provide additional funds, actions will be required in mid-September to reduce FFTF staff by approximately 60 FTE's.

Corrective Action/Status: RL has informed DOE-HQ of the need for supplemental funding action, the decision date, and the impact. Discretionary spending is being strictly controlled, but can result in only limited relief.

ADVANCED REACTORS TRANSITION
WBS 1.12/2.1.1.1.21/2.1.1.1.4

FY 1999 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES

Cumulative to Date Status



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYSF												
PTS BCWS	2.8	6.1	9.6	12.7	15.9	20.2	23.7	27.3	31.5	34.7	37.4	42.2
BCWP	2.8	6.1	9.5	12.5	15.4	19.4	22.9	26.2	30.3	33.8		
ACWP	1.9	4.7	8.9	11.0	14.2	18.1	21.2	24.8	28.1	31.1		
SV	0.0	0.0	(0.1)	(0.2)	(0.5)	(0.8)	(0.8)	(1.1)	(1.2)	(0.9)		
CV	0.9	1.4	0.6	1.5	1.2	1.3	1.7	1.4	2.2	2.7		

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SPI	1.00	1.00	0.99	0.98	0.97	0.96	0.97	0.98	0.96	0.97		
CPI	1.47	1.30	1.07	1.14	1.08	1.07	1.08	1.06	1.08	1.09		

ADVANCED REACTOR TRANSITION
WBS 1.12/2.1.1.1.21/2.1.1.1.4

			FYTD					AUTH	PTS
PBS			~~BCWS~~	~~BCWP~~	~~ACWP~~	~~SV~~	~~CV~~	~~BSLN~~	~~BCWS~~
TP11	Advanced	Expense	1.6	1.6	7.2	0.0	(5.6)	2.0	2.0
	Reactors	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~
	Total		1.6	1.6	7.2	0.0	(5.6)	2.0	2.0
MS01	N/E	Expense	33.1	32.2	23.9	(0.9)	8.3	40.2	40.2
		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~
	Total		33.1	32.2	23.9	(0.9)	8.3	40.2	40.2
	Advan	Expense	34.7	33.8	31.1	(0.9)	2.7	42.2	42.2
	Transit	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~	~~0.0~~
	Total		34.7	33.8	31.1	(0.9)	2.7	42.2	42.2

$ In Millions

a) Advanced Reactors (TP11) includes $0.2 RL-Directed costs (e.g. steam and laundry).
b) Advanced Reactors (TP11) reflects $6.0M costs that will be transferred to Advanced Reactors (MS01).

COST VARIANCE ANALYSIS: (+$2.7M)

WBS/PBS	Title
2.1.1.1.21/MS-01	
1.12/TP11	**Advanced Reactors Transition**

Description and Cause: The favorable cost variance of $2.7M (8.0 percent) is due to a credit indirect passback and a credit FY 1998 Fee adjustment and labor, contract, material underruns and program efficiencies.

Impact: There is no significant program impact associated with this variance.

Corrective Action: Favorable underruns will be used to offset emergent workscope, such as Computer Code Migration. The Computer Code Migration is being driven by the planned closure of the "Scientific and Engineering Computational Center" (SECC) and the "Common Files Storage" (CFS) system in order to preserve the computational and analysis capability. Also, anticipated funding is less than the program plan budget, which will require favorable cost performance.

SCHEDULE VARIANCE ANALYSIS: (-$0.9M)

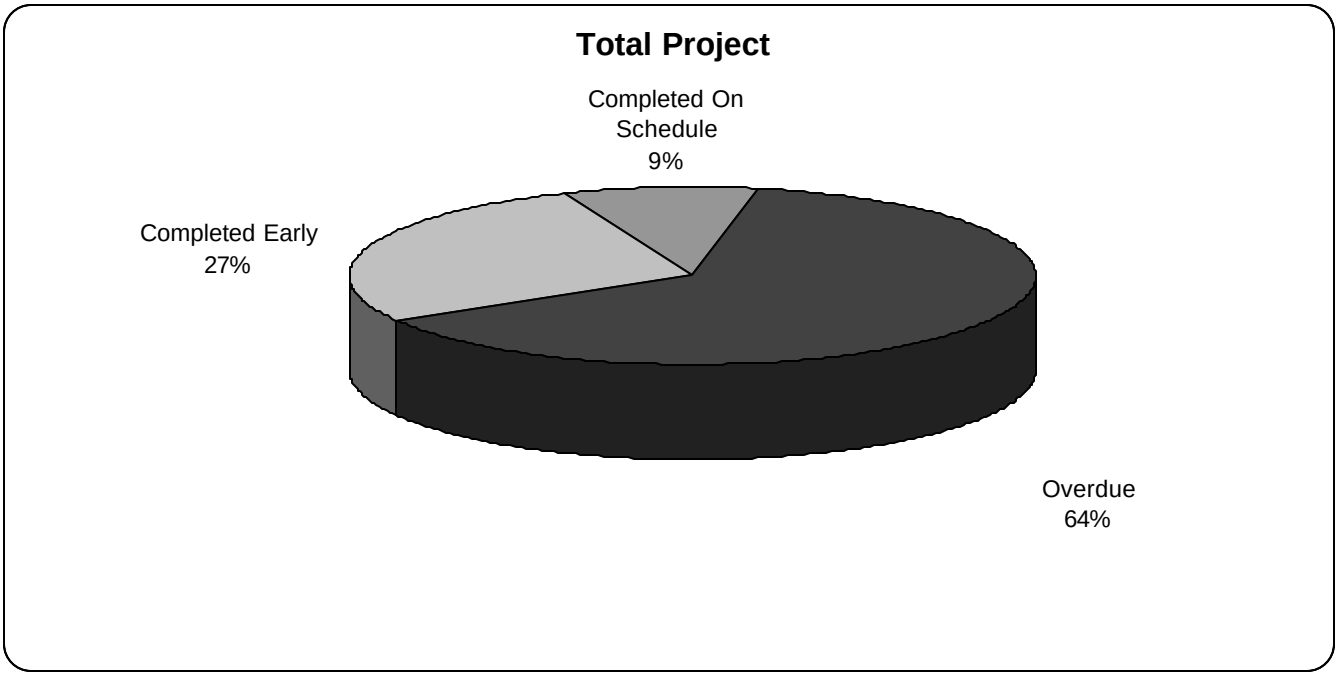
WBS/PBS	Title
2.1.1.1.21/MS-01	
1.12/TP11	**Advanced Reactors Transition**

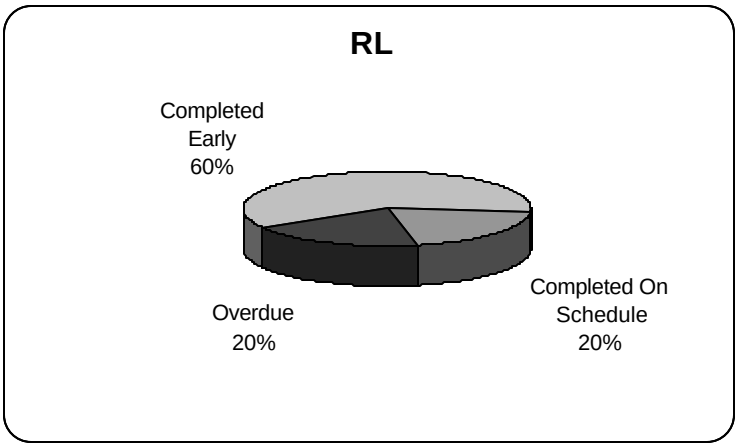
Description and Cause: The 2.6 percent unfavorable variance is within the established four percent unfavorable threshold.
Impact: None.
Corrective Action: None.

ADVANCED REACTORS TRANSITION – WBS 1.12

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 1999
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	2	0	0	0	2
DOE-HQ	0	0	0	0	0	0	0	0
FO	0	0	0	4	0	0	0	4
RL	3	1	0	1	0	3	0	8
Total Project	3	1	0	7	0	3	0	14





MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date

OVERDUE - 7

B19-99-301 **FO** Complete Transfer of Irradiated 10/30/98 Proposed
2.1.1.1.21 Fuel to Dry Cask Storage (M-81-00-T02) Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-98-01, which is pending approval.

B19-99-302 **FO** Complete Transfer of 10/30/98 Proposed
2.1.1.1.21 Un-Irradiated Fuel to PFP Abeyance
(M-81-00-T03)

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-98-01, which is pending approval.

B19-99-303 **FO** Complete Transfer of Special Fuel 10/30/98 Proposed
2.1.1.1.21 to INEL for Storage (M-81-00-T04) Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-98-01, which is pending approval.

MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date
B69-99-302 1.12.1.1	**EA**	Submit Hanford Site Sodium Management Plan to Ecology (M-92-10)	10/31/98	Proposed Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-92-98-01.

B17-99-102 2.1.1.1.21	**EA**	Submit FFTF End Point Criteria Document (M-81-03)	12/31/98	Proposed Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-98-01, which is pending approval.

B19-99-401 2.1.1.1.21	**FO**	Complete Interim Decay Storage/ Fuel Storage Facility Sodium Drain (M-81-04-T02)	12/31/98	Proposed Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-98-01, which is pending approval.

MILESTONE EXCEPTION REPORT

Number/WBS	Level	Milestone Title	Baseline Date	Forecast Date
B79-99-403 1.12.1.2.1	**RL**	309 Containment Dome Repair	7/29/99	8/13/99

Cause: Adverse weather conditions and material shortages caused this milestone delay.
Impact: None.
Corrective Action: Complete the scheduled work.

OVERDUE – 2 (FY 1998)

B19-98-401 2.1.1.1.21	**FO**	Complete Reactor and Heat Transport System Sodium Drain (M-81-04-T01)	4/30/98	Proposed Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-97-01, which is pending approval.

B17-98-107 2.1.1.1.21	**FO**	Submit Sodium Disposition Evaluation Report/Decision Point (M-81-02-T01)	6/30/98	Proposed Abeyance

Cause: As a consequence of FFTF being placed in standby, facility transition work has been limited to activities that would not inhibit reactor restart and TPA work schedules are no longer achievable or appropriate.
Impact: No programmatic impact once this milestone is placed "in abeyance".
Corrective Action: The FFTF TPA milestones are proposed to be placed in "abeyance" (temporary suspension) until the Secretary of Energy issues a final decision on whether or not FFTF will be evaluated for medical isotope production and other civilian nuclear missions. This milestone change is proposed per Tri-Party Agreement Change Request M-81-97-01, which is pending approval.